

Section 1.10: Words that Mean Add, Subtract, Multiply, & Divide (See p. 91 for the book's list.)

Word or Phrase		Syntax	Statement	Algebraic Form
+	SUM	The sum of ___ and ___	The sum of \underline{x} and $\underline{4}$	$x + 4$
	Increased by	___ increased by ___	$\underline{5}$ increased by \underline{x}	$5 + x$
	More than	___ more than ___	$\underline{3}$ more than \underline{x}	$3 + x$
	Added to	___ added to ___	$\underline{4}$ added to \underline{x}	$4 + x$
	Total	The total of ___ & ___	The total of $\underline{4}$ and $\underline{5}$.	$4 + 5$
-	DIFFERENCE	The difference of ___ & ___	The difference of \underline{x} & $\underline{5}$	$x - 5$
	<i>Less than*</i>	___ less than ___	$\underline{12}$ less than \underline{x}	$x - 12$
	Less	___ less ___	$\underline{6}$ less \underline{x}	$6 - x$
	<i>Subtracted from*</i>	___ subtracted from ___	$\underline{-8}$ subtracted from \underline{x}	$x - (-8)$
	Decreased by	___ decreased by ___	\underline{x} decreased by $\underline{9}$	$x - 9$
×	PRODUCT	The product of ___ & ___	The product of $\underline{3}$ & \underline{x}	$3 \bullet x = 3x$
	Multiplied by	___ multiplied by ___	\underline{x} multiplied by $\underline{5}$	$x \bullet 5 = 5x$
	Twice	Twice ___	Twice \underline{x}	$2 \bullet x = 2x$
	Times	___ times ___	$\underline{5}$ times \underline{x}	$5 \bullet x = 5x$
	Of	___ of ___	$\frac{1}{2}$ of \underline{x}	$\frac{1}{2} \bullet x = \frac{1}{2}x$
	(When used with % & fracs)		$\underline{75\%}$ of \underline{x}	$0.75 \bullet x = 0.75x$
÷	QUOTIENT	The quotient of ___ & ___	The quotient of $\underline{3}$ & $\underline{4}$	$3 \div 4 = \frac{3}{4}$
	Divided by	___ divided by ___	$\underline{3}$ divided by \underline{x}	$3 \div x = \frac{3}{x}$
	Ratio	The ratio of ___ & ___	The ratio of $\underline{1}$ to $\underline{4}$.	$1 \div 4 = \frac{1}{4}$
=	IS/ARE	=		
	Is the same as			
	Equal to			
	Equals			
$(\)^2$	Squared	___ squared	$\underline{5}$ squared	$(5)^2$
$\sqrt{\ }$	Square Root	The square root of ___	The square root of $\underline{16}$	$\sqrt{16}$
$(\)^3$	Cube	___ cubed	$\underline{4}$ cubed	$(4)^3$
$\sqrt[3]{\ }$	Cube Root	The cube root of ___	The cube root of $\underline{8}$	$\sqrt[3]{8}$
-	Opposite of	The opposite of ___	The opposite of \underline{x}	$-x$
?	Absolute Value	The absolute value of ___	The absolute value of $\underline{-7}$	$ -7 $
Word or Phrase		Syntax	Statement	Algebraic Form

* Backwards structures (terms are written in the reverse order)